

267C3 in the direction of the Mexican allotments, in this case 128.6 degrees towards Agua Prieta and 224.0 degrees towards Sasabe. These exhibits were prepared using the radial interpolation method set forth in the US-Mexico FM Agreement. It is respectfully requested that the Commission coordinate the proposed Tanque Verde allotment as a specially-coordinated short-spaced allotment.

The proposed Tanque Verde allotment site is suitable for tower construction. According to the best available information the site is not located within any designated Wilderness Area, National Forest, military facility, or other such area, and is reported by the Commission's TOWAIR program to be more than 5 miles from the nearest airport.

The proposed allotment of Channel 267C3 will provide the first local service at Tanque Verde. Corona de Tucson will retain local service from the reallocation of KRDX on Channel 253A to that community.

The proposed Channel 267C3 allotment at Tanque Verde for KKYZ is mutually-exclusive with the current authorization/allotment of KKYZ on Channel 267C3 at Corona de Tucson.⁷ Specifically, the proposed Channel 267C3 allotment site is 130 km short-spaced to the Corona de Tucson Channel 267C3 allotment site.

The allotment of Channel 267C3 at Tanque Verde will provide 70 dBu service to 63% of the area and 74% of the population of the Tucson Urbanized Area.

Channel 253A at Corona de Tucson, Arizona

As outlined in the attached channel study, Channel 253A can be assigned for use at Corona de Tucson in compliance with the Commission's applicable Rules and Regulations regarding the separation among FM allotments. For this study the coordinates of the KRDX construction permit

⁷ Channel 267C3 was allotted for use at Corona de Tucson by the Report & Order in MB Docket 03-141, *Sierra Vista and Corona de Tucson, Arizona* (19 FCC Rcd 10997), released on June 25, 2004. That action is now final, and a construction permit BPH-20021218ANF has been granted to implement KKYZ operation on Channel 267C3 at Corona de Tucson at the allotment site coordinates.

BPH-20020228AEE (N31-55-39 x W110-37-57) have been used. This site is 15.4 kilometers from the far side of Corona de Tucson. The nominal distance to the 70 dBu F(50,50) contour for a Class A station is 16.2 kilometers. Therefore, and as depicted on the attached map exhibit, this site will provide greater than 70 dBu coverage for all of Corona de Tucson.⁸

The proposed allotment at Corona de Tucson is short-spaced by 55 km to Mexican station XHSAP-FM Channel 253B at Agua Prieta. Attached is an engineering study, conducted pursuant to the procedures in the US-Mexico FM Agreement, which demonstrates that equivalent protection can be provided to the Mexican station by the limitation of the proposed facilities of Channel 253A in the direction of the Mexican station, in this case 123.9 degrees towards Agua Prieta. This exhibit was prepared using the radial interpolation method set forth in the US-Mexico FM Agreement. It is respectfully requested that the Commission coordinate the proposed Corona de Tucson allotment as a specially-coordinated short-spaced allotment.⁹

The proposed Corona de Tucson allotment site is suitable for tower construction. According to the best available information the site is not located within any designated Wilderness Area, National Forest, military facility, or other such area, and is reported by the Commission's TOWAIR program to be more than 5 miles from the nearest airport. (A tower is to be constructed at this location for KRDX, for which DWAR has completed the necessary local permitting.)

The proposed allotment of Channel 253A will ensure that Corona de Tucson will retain local service. Vail will retain local service from the reallocation of the new FM CP on Channel 279A to that community (reallocation from Lordsburg Channel 279C1).

⁸ This map exhibit also depicts the authorized 70 dBu contour of the KRDX construction permit at this site, as calculated per §73.313 of the Commission's Rules, further demonstrating that Corona de Tucson will receive at least 70 dBu from a Channel 253A allotment at this location.

⁹ It should be noted in this context that the proposed Corona de Tucson Channel 253A allotment is at the same site as the existing Vail Channel 253A construction permit.

The proposed Channel 253A allotment at Corona de Tucson for KRDX is mutually-exclusive with the current authorization of KRDX on Channel 253A at Vail.¹⁰ Specifically, the proposed Channel 253A allotment site is identical to the Vail Channel 253A construction permit site.

The allotment of Channel 253A at Corona de Tucson will not provide 70 dBu service to any portion of the Tucson Urbanized Area, nor is Corona de Tucson located within the Tucson Urbanized Area.

Channel 279A at Vail, Arizona

As outlined in the attached channel study, Channel 279A can be assigned for use at Vail in compliance with the Commission's applicable Rules and Regulations regarding the separation among FM allotments. For this study preferred site coordinates at N31-58-16 x W110-35-59 have been used. This site is 13.6 kilometers from the far side of Vail. The nominal distance to the 70 dBu F(50,50) contour for a Class A station is 16.2 kilometers. Therefore, and as depicted on the attached map exhibit, this site will provide greater than 70 dBu coverage for all of Vail.

The proposed allotment at Vail is short-spaced to one Mexican station and one Mexican allotment. Specifically, this proposal is short-spaced by 46 km to XHRZ-FM Channel 266B at Nogales, and by 11 km to vacant Channel 280B at Cananea. Attached are engineering studies, conducted pursuant to the procedures in the US-Mexico FM Agreement, which demonstrate that equivalent protection can be provided to the Mexican facilities by the limitation of the proposed facilities of Channel 279A in the direction of the Mexican facilities, in this case 204.6 degrees towards Nogales and 165.4 degrees towards Cananea. These exhibits were prepared using the radial interpolation method set forth in the US-Mexico FM Agreement. It is respectfully requested that the Commission coordinate the proposed Vail allotment as a specially-coordinated short-spaced allotment.

¹⁰ Channel 253A was allotted for use at Vail by the Report & Order in MM Docket 00-31, *Nogales, Vail and Patagonia, Arizona* (16 FCC Rcd 6935), released on November 23, 2001. That action is now final, and KRDX holds a construction permit BPH-20020228AAE to implement operation on Channel 253A at Vail at the allotment site coordinates.

The proposed Vail allotment site is suitable for tower construction. According to the best available information the site is not located within any designated Wilderness Area, National Forest, military facility, or other such area, and is reported by the Commission's TOWAIR program to be more than 5 miles from the nearest airport.

The proposed allotment of Channel 279A will ensure that Vail will retain local service. Lordsburg will retain local service from KPSA-FM.

The proposed Channel 279A allotment at Vail for New FM (Facility ID #164116) is mutually-exclusive with the current authorization on Channel 279C1 at Lordsburg.¹¹ Specifically, the proposed Channel 279A allotment site is 20 km short-spaced to the Lordsburg Channel 279C1 construction permit site.

The allotment of Channel 279A at Vail will not provide 70 dBu service to any portion of the Tucson Urbanized Area, nor is Vail located within the Tucson Urbanized Area.

Channel 279C1 at Animas, New Mexico

In order to address the loss area created by the removal of Channel 279C1 from Lordsburg, it is proposed to allot Channel 279C1 at Animas, New Mexico.¹² As outlined in the attached channel study, Channel 279C1 can be assigned for use at Animas in compliance with the Commission's applicable Rules and Regulations regarding the separation among FM allotments, assuming that Lordsburg Channel 279C1 is reallocated to Vail Channel 279A as discussed *infra*. A site restriction 31 kilometers east of the community is necessary to prevent short-spacing to the proposed Channel 279A allotment at Vail, so for this study site coordinates at N31-56-50 x W108-28-45 have been used. This site is 31 kilometers from Animas, the reference coordinates of which are

¹¹ Construction permit BNPH-20050609ABD for Channel 279C1 at Lordsburg was granted on September 14, 2005.

¹² It should be noted that Channel 279C1 is not yet constructed and operational at Lordsburg. Therefore, the "removal" of this unbuilt facility would not deprive listeners of a service upon which they have come to rely. Nevertheless, the proposed allotments at Animas and Virden have been included in the instant proposal in order to ensure the availability of radio service in this area.

N31-56-56 x W108-48-24. The nominal distance to the 70 dBu F(50,50) contour for a Class C1 station is 50 kilometers. Therefore, and as depicted on the attached map exhibit, this site will provide greater than 70 dBu coverage for all of Animas.

The proposed allotment of Channel 279C1 at Animas will provide the first local service at that community.

Channel 228C1 at Virden, New Mexico

In order to address the loss area created by the removal of Channel 279C1 from Lordsburg, it is proposed to allot Channel 228C1 at Virden, New Mexico. As outlined in the attached channel study, Channel 228C1 can be assigned for use at Virden in compliance with the Commission's applicable Rules and Regulations regarding the separation among FM allotments. A site restriction 33 kilometers south-southeast of the community is necessary to prevent short-spacing to KSCQ Channel 225C2 Silver City and KRQQ Channel 229C Tucson, so for this study site coordinates at N32-24-12 x W108-53-59 have been used. This site is 33 kilometers from Virden. The nominal distance to the 70 dBu F(50,50) contour for a Class C1 station is 50 kilometers. Therefore, and as depicted on the attached map exhibit, this site will provide greater than 70 dBu coverage for all of Virden.

The proposed allotment at Virden is short-spaced by 4 km to Mexican station XHSCA-FM Channel 227C at Cananea. Attached is an engineering study, conducted pursuant to the procedures in the US-Mexico FM Agreement, which demonstrates that equivalent protection can be provided to the Mexican station with no limitation of the proposed facilities of Channel 228C1 in the direction of the Mexican station, in this case 223.5 degrees towards Cananea. This exhibit was prepared using the radial interpolation method set forth in the US-Mexico FM Agreement. It is respectfully requested that the Commission coordinate the proposed Virden allotment as a specially-coordinated short-spaced allotment.

The proposed allotment of Channel 228C1 at Virden will provide the first local service at that community.

Hatfield & Dawson Consulting Engineers

Individual Gain and Loss Areas

The population figures quoted in the following gain and loss area studies are derived from 2000 Census data using the block centroid method.

The allotment change for KRDX Channel 253A from Vail to Corona de Tucson does not involve any change in transmitter/allotment site or class, and therefore does not create any gain or loss areas.

The following table depicts lists the gain and loss areas directly associated with the reallocation of Channel 267C3 from Corona de Tucson to Tanque Verde:

KKYZ 267C3	Area	Population
Existing Corona de Tucson allotment	4,803 km ²	475,869
Proposed Tanque Verde allotment	4,803 km ²	783,162
Common Area	3,060 km ²	461,349
Gain Area	1,743 km ²	321,813
Loss Area	1,743 km ²	14,520
Net Change	(no net area change)	+307,293

The following table depicts lists the gain and loss areas directly associated with the reallocation of Channel 279C1 from Lordsburg to Channel 279A Vail:

New FM (Facility ID #164116)	Area	Population
Existing Lordsburg 279C1 allotment	16,422 km ²	33,080
Proposed Vail 279A allotment	2,516 km ²	35,285
Net Change	-13,906 km ²	+2,205

In addition, the allotment of Channel 279C1 at Animas will provide service to 14,836 km² of US territory containing 8,493 persons, and the allotment of Channel 228C1 at Virden will provide service to 16,422 km² containing 21,593 persons.

Overall Gain and Loss Areas

Many of the individual gain and loss areas overlap. The attached map exhibit depicts the existing and proposed service areas, with positive and negative numerals indicating the number of services gained or lost.

Taken as a whole, the proposed reallocation plan will result in an additional service being provided to a total of 20,734 km² containing 364,186 persons. A total of 1,553 km² (US land area) containing 24,602 persons will lose an aural service.

The net effect of the proposed reallocation plan is an increase of service to 339,584 persons in a 19,181 km² area.

Gain Areas Existing Services Analysis

There are five discrete gain areas associated with the proposed reallocation plan, i.e. five areas will see a net increase in aural service.

The gain areas directly associated with the allotment of Channel 267C3 at Tanque Verde and Channel 279A at Vail are both well-served, with in excess of 5 existing aural services. The attached map titled "Tanque Verde and Vail Gain Areas" depicts the contours of 6 Class C FM stations which provide service to these areas: KWMT-FM 225C Tucson, KRQQ 229C Tucson, KMXZ-FM 235C Tucson, KLPX 241C Tucson, KIIM-FM 258C Tucson, and KHYT 298C Tucson. Each of these stations provides service to 100% of the Tanque Verde and Vail gain areas, and numerous other stations provide service to all or a portion of these gain areas.

All but a very small unpopulated portion of the gain area directly associated with the allotment of Channel 279C1 at Animas is underserved, and much of the Animas gain area consists of white

and gray area. The attached map titled "Animas Gain Area" depicts the contours of those stations which provide service to this area: KOTS(AM) 1230 kHz Deming (NIF = 19.1 mV/m), KZPI 219A Deming, KDEM 232A Deming, KNUW 236C1 Santa Clara, KPSA-FM 250C Lordsburg (reserved upgrade channel), KNFT-FM 275C1 Bayard, and KWNM 288C1 Hurley. Additional aural service will be provided to:

- 237 persons in a 4,385 km² (US land only) area who presently have no aural service
- 95 persons in a 462 km² area who presently have only 1 aural service
- 836 persons in a 463 km² area who presently have only 2 aural services
- 527 persons in a 76 km² area who presently have only 3 aural services
- 424 persons in a 163 km² area who presently have only 4 aural services

Some of the gain area directly associated with the allotment of Channel 228C1 at Virden is underserved. The attached map titled "Virden Gain Area" depicts the contours of those stations which provide service to this area: KSCQ 225C2 Silver City, KXXQ 232C2 Safford, KNUW 236C1 Santa Clara, KCDQ 237C0 Tombstone, KPSA-FM 250C Lordsburg (reserved upgrade channel), KFMM 256C Thatcher, KJIK 264C1 Duncan, KWRQ 272C1 Clifton, KNFT-FM 275C1 Bayard, KWCX-FM 285C2 Willcox, KWNM 288C1 Hurley, and vacant 223C3 Willcox. Additional aural service will be provided to:

- zero persons in a 11 km² area who presently have only 1 aural service
- 59 persons in a 214 km² area who presently have only 2 aural services
- 4 persons in an 84 km² area who presently have only 3 aural services
- 195 persons in an 818 km² area who presently have only 4 aural services

The removal of the Lordsburg 279C1 allotment and the addition of the Animas 279C1 and Virden 228C1 allotments creates an area which gains one net service. Some of the gain area directly associated with these allotments is underserved. The attached map titled "Animas-Virden Gain Area" depicts the contours of those stations which provide service to this area: KSCQ 225C2 Silver City, KNUW 236C1 Santa Clara, KCDQ 237C0 Tombstone, KPSA-FM 250C Lordsburg (reserved upgrade channel), KFMM 256C Thatcher, KJIK 264C1 Duncan, KWRQ 272C1 Clifton,

KNFT-FM 275C1 Bayard, KWCX-FM 285C2 Willcox, and KWNM 288C1 Hurley. Additional aural service will be provided to:

- 422 persons in a 1,072 km² area who presently have only 1 aural service
- 1,275 persons in a 2,836 km² area who presently have only 2 aural services
- 144 persons in an 758 km² area who presently have only 3 aural services
- 1,432 persons in an 181 km² area who presently have only 4 aural services

Loss Areas Remaining Services Analysis

There are two discrete gain areas associated with the proposed reallocation plan, i.e. two areas will see a net decrease in aural service.

The loss area directly associated with the reallocation of Channel 267C3 from Corona de Tucson to Tanque Verde is well-served, with in excess of 5 existing aural services. The attached map titled "Corona de Tucson Loss Area" depicts the contours of 6 Class C FM stations which provide service to this area: KWMT-FM 225C Tucson, KRQQ 229C Tucson, KMZX-FM 235C Tucson, KLPX 241C Tucson, KIIM-FM 258C Tucson, and KHYT 298C Tucson. Each of these stations provides service to 100% of the Corona de Tucson loss area, and numerous other stations provide service to all or a portion of this loss area.

The loss area directly associated with the reallocation of Channel 279C1 from Lordsburg is well-served, with in excess of 5 existing aural services. The attached map titled "Lordsburg Loss Area" depicts the contours of 5 facilities which provide service to this area: KSCQ 225C2 Silver City, KNUW 236C1 Santa Clara, KPSA-FM 250C Lordsburg (reserved upgrade channel), KNFT-FM 275C1 Bayard, and KWNM 288C1 Hurley. Each of these stations provides service to 100% of the Lordsburg loss area.

Conclusion

Based on the foregoing analysis, it is apparent that there is no allotment site for Petitioner's proposed Channel 265A at Tanque Verde which is both within 16.2 km of 100% of Tanque Verde, and on land where it would be possible to construct a broadcast facility. All of the fully-spaced area is either a) within the Pusch Ridge Wilderness Area or b) within the Coronado National Forest. The national forest areas are either low-lying (and terrain-shadowed) or inaccessible due to a lack of roads..

Furthermore, the Petitioner's proposed reallocation of Channel 265A from Sierra Vista to Tanque Verde would deprive 7,485 persons in an 891 square kilometer area of their second aural service.

Therefore, the proposal by CCR-Sierra Vista IV, LLC, to reallocate Channel 265A from Sierra Vista to Tanque Verde, is technically deficient and must be denied.

By comparison, the Cochise/DWAR counterproposal described herein is fully compliant with the Commission's allotment principles, and will provide the first local service at three communities (Tanque Verde, Animas, and Virden). The Cochise/DWAR counterproposal will not deprive any area of its first or second aural service, and will in fact provide the first aural service to 237 persons in a 4,385 km² area who presently have no aural service at all, while an additional 517 persons in a 1,545 km² area will receive their second aural service.

Statement of Engineer

This Engineering Statement has been prepared by Erik C. Swanson under my direct supervision. I hereby declare that the facts set out in the foregoing Engineering Statement, except those of which official notice may be taken, are true and correct.

Signed this 17th day of September, 2005



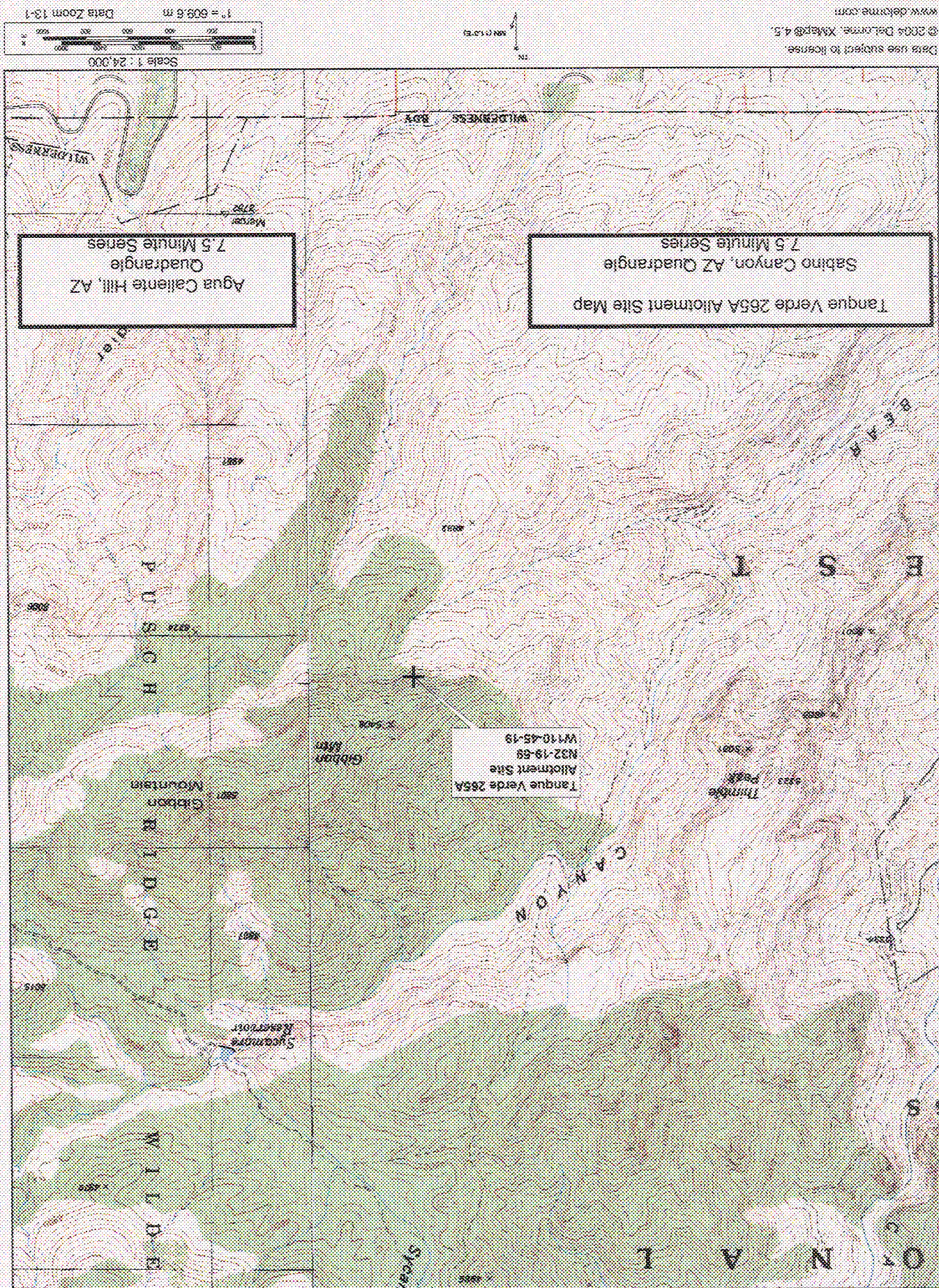
Benjamin F. Dawson III, P.E.

Erik C. Swanson

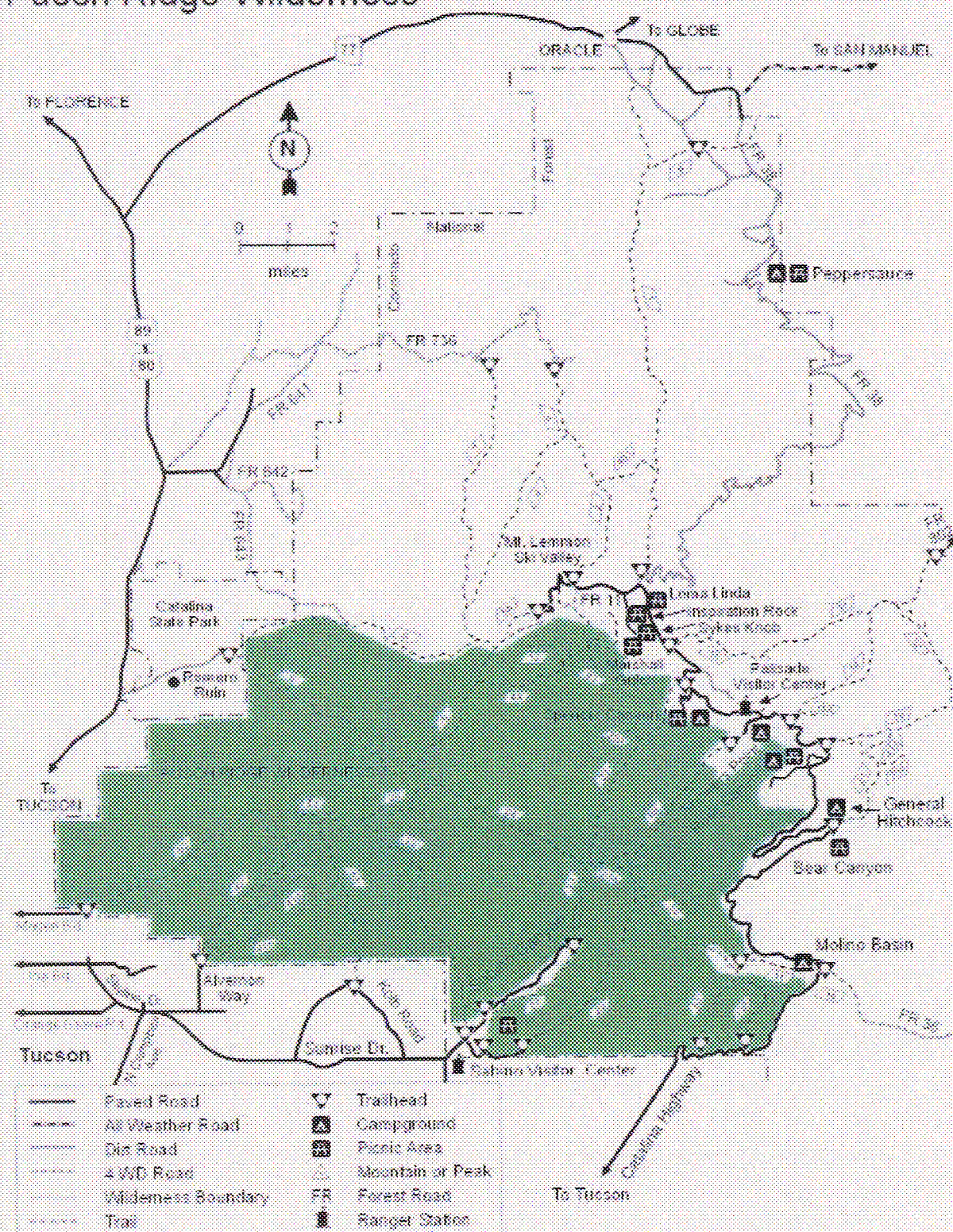
Hatfield & Dawson Consulting Engineers

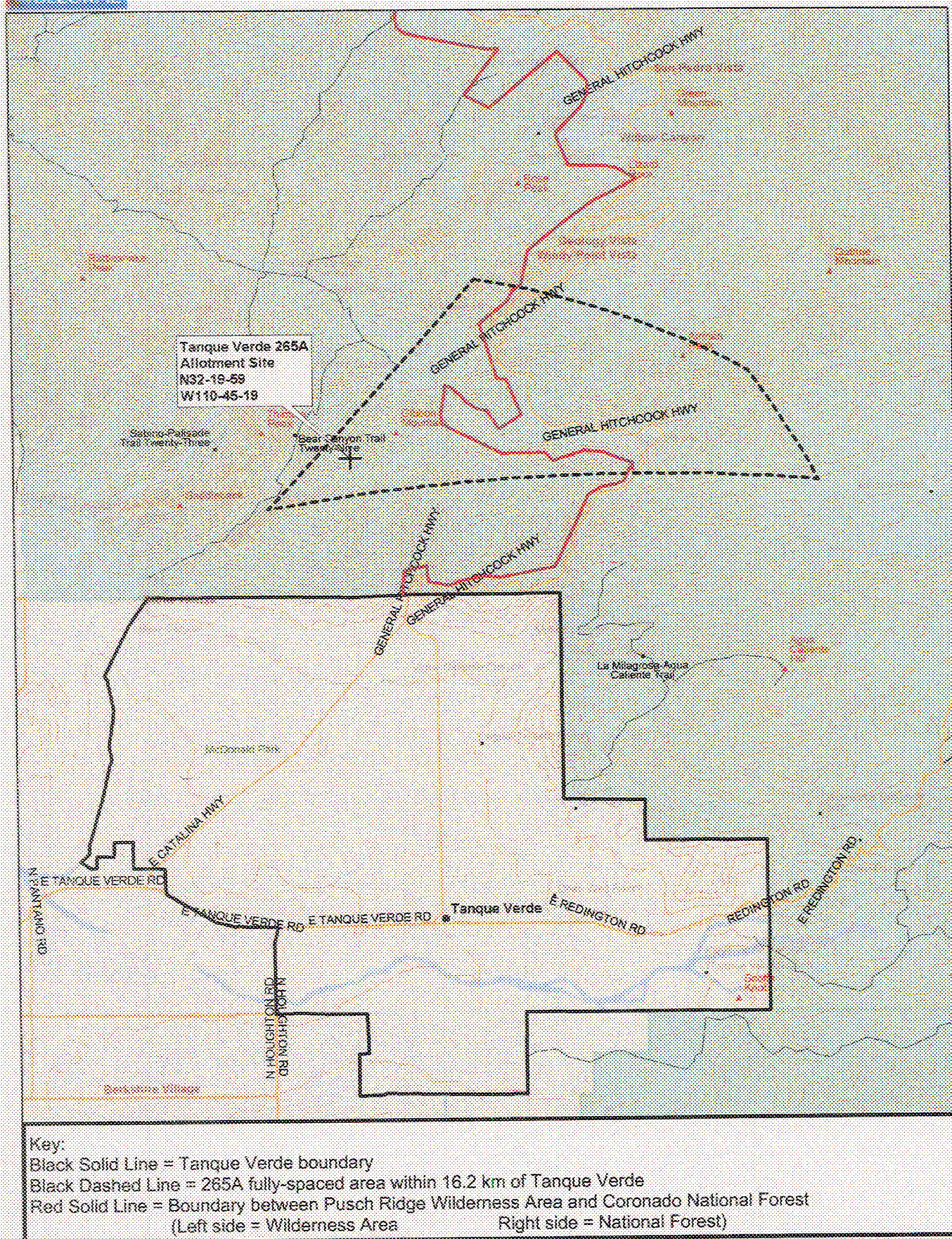
Exhibits Regarding Petitioner's Technically Defective Proposal

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Pusch Ridge Wilderness

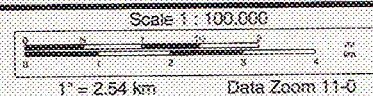
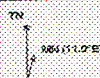




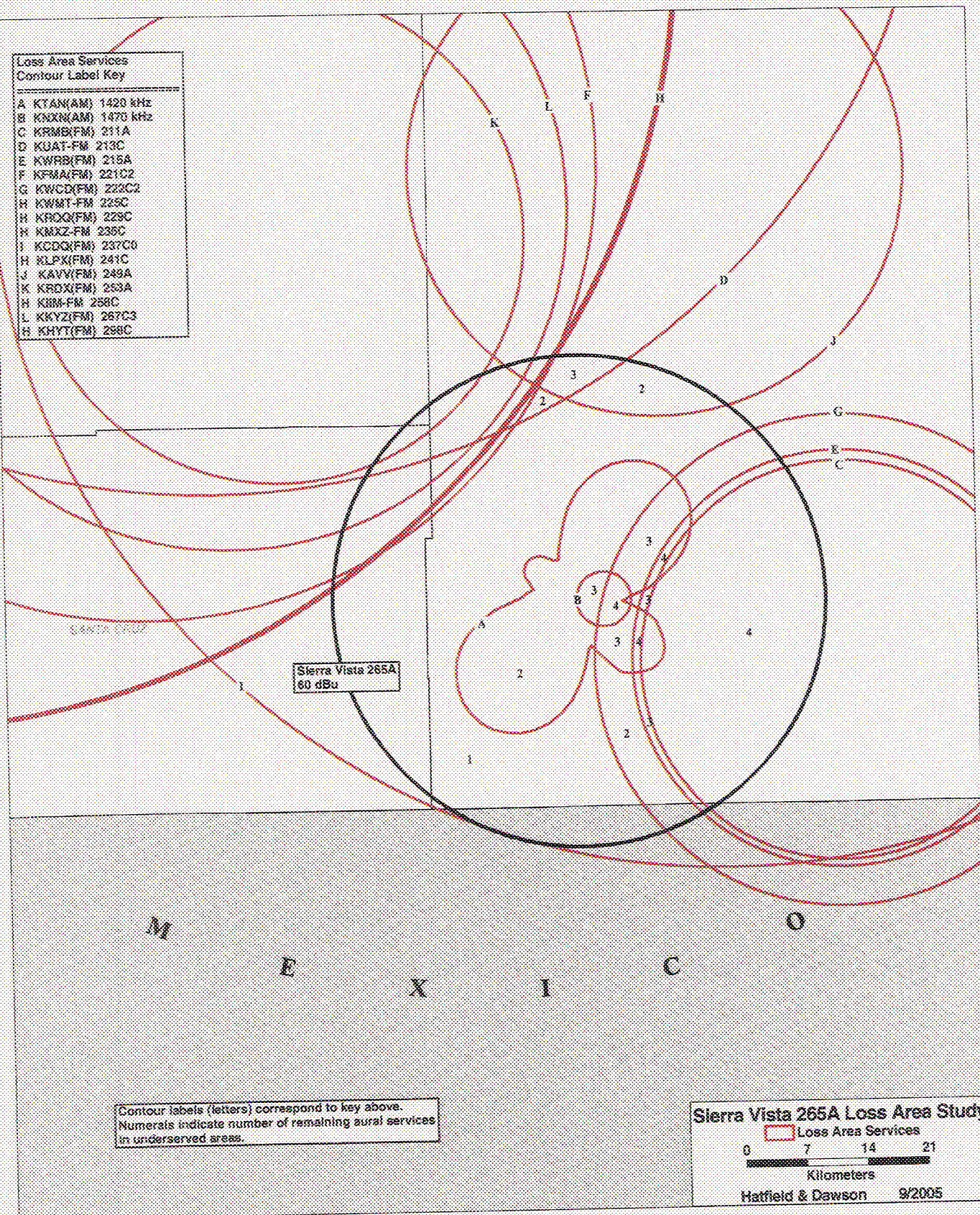
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Loss Area Services Contour Label Key	
A	KTAN(AM) 1420 kHz
B	KNXN(AM) 1470 kHz
C	KRMB(FM) 211A
D	KUAT-FM 213C
E	KWRB(FM) 215A
F	KFMA(FM) 221C2
G	KWCD(FM) 223C2
H	KWMT-FM 225C
I	KROQ(FM) 229C
J	KMXZ-FM 235C
K	KCDQ(FM) 237C0
L	KLPK(FM) 241C
M	KAVV(FM) 249A
N	KROX(FM) 253A
O	KJMM-FM 258C
P	KKYZ(FM) 267C3
Q	KHYT(FM) 268C



Tanque Verde Channel 267C3 Allocation Study Exhibits

Hatfield & Dawson Consulting Engineers

SEARCH PARAMETERS

FM Database Date: 050915

Page 1

Channel: 267C3 101.3 MHz
 Latitude: 32 8 45
 Longitude: 110 46 56
 Safety Zone: 32 km
 Job Title: TANQUE VERDE 267C3 (KKYZ)

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KUAT-FM LIC	TUCSON AZ	213C BLED-1402	12.500 90.5	1091.0	32-24-55 110-42-54	11.9	30.54 -0.46	31 SHORT
NEW CP	TUCSON AZ	264L1 BNPL-010615ANJ	0.050 100.7	8.4	32-11-30 110-51-08	307.7	8.33 0.00	0 LPFM
NEW CP	MARANA AZ	265L1 BNPL-010615AXK	0.050 100.9	-13.0	32-27-30 111-12-44	310.8	53.30 0.00	0 LPFM
ADD	TANQUE VERDE AZ	265A RM-11264	0.000 100.9	0.0	32-19-59 110-45-19	6.9	20.92 -21.08	42 SHORT
NOTE: LEAD PROPOSAL IN THIS PROCEEDING, FROM 265A SIERRA VISTA DEMONSTRATED HEREIN TO BE TECHNICALLY DEFECTIVE								
K265CW LIC	TUCSON AZ	265D BLFT-020726ABL	0.052 100.9	1703.0	32-26-26 110-47-12	359.3	32.68 0.00	0 TRANS
	SASABE SO	266B -	0.000 101.1	0.0	31-28-00 111-32-50	224.0	104.54 -40.46	145 SHORT
NOTE: MEXICAN ALLOTMENT; PLEASE SEE ATTACHED ALLOCATION STUDY								
NEW-T APP	CASA GRANDE AZ	266D BNPFT-030317JFV	0.028 101.1	294.0	32-49-19 111-42-42	311.0	115.12 0.00	0 TRANS
NEW-T APP	CASA GRANDE AZ	266D BNPFT-030313BEK	0.170 101.1	291.0	32-49-19 111-42-42	311.0	115.12 0.00	0 TRANS
K266AX CP	CORTARO AZ	266D BNPFT-030814AFP	0.010 101.1	172.0	32-26-36 111-05-26	318.9	43.95 0.00	0 TRANS
	AGUA PRIETA SO	267B -	0.000 101.3	0.0	31-18-24 109-33-37	128.6	148.53 -62.47	211 SHORT
NOTE: MEXICAN ALLOTMENT; PLEASE SEE ATTACHED ALLOCATION STUDY								
KKYZ CP	CORONA DE TUCSON AZ	267C3 BPH-021218ANF	25.000 101.3	40.0	31-57-24 110-41-38	158.4	22.57 -130.43	153 SHORT
NOTE: TO TANQUE VERDE 267C3 PER THIS PROPOSAL								
RSV	CORONA DE TUSCON AZ	267C3 RM-10703	0.000 101.3	0.0	31-57-24 110-41-38	158.4	22.57 -130.43	153 SHORT
NOTE: TO TANQUE VERDE 267C3 PER THIS PROPOSAL								
NEW-T APP	GREEN VALLEY AZ	267D BNPFT-030317JGO	0.205 101.3	117.0	31-50-30 110-57-23	205.9	37.53 0.00	0 TRANS

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SEARCH PARAMETERS FM Database Date: 050915

Channel: 267C3 101.3 MHz Page 2

Latitude: 32 8 45

Longitude: 110 46 56

Safety Zone: 32 km

Job Title: TANQUE VERDE 267C3 (KKYZ)

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
NEW-T	GREEN VALLEY		267D	0.050	DA 31-50-30	205.9	37.53	0
APP	AZ BNPFT-030826AKM		101.3	117.0	110-57-23		0.00	TRANS
K267AF	TUCSON		267D	0.050	DA 32-14-55	290.1	33.46	0
LIC	AZ BLFT-010605ACH		101.3	625.0	111-06-57		0.00	TRANS
KZON	PHOENIX		268C	100.000	33-19-52	318.1	178.00	176
LIC	AZ BLH-6108		101.5	530.0	112-03-46		2.00	CLOSE
KZONaux	PHOENIX		268C	10.000	33-19-52	318.1	178.00	0
LIC	AZ BXLH-050401BII		101.5	493.0	112-03-46		0.00	AUX
KZONaux	PHOENIX		268C	10.000	33-19-52	318.1	178.00	0
CP	AZ BXPB-040604AAR		101.5	542.0	112-03-46		0.00	AUX

===== BEGINNING SEARCH OF SECONDARY DATABASE =====

KKYZ	TANQUE VERDE		267C3	0.000	32-08-45	0.0	0.00	153
PROP	AZ -		101.3	0.0	110-46-56		-153.00	SHORT

===== END OF FM SPACING STUDY FOR CHANNEL 267 =====

Tanque Verde Channel 267C3 (KKYZ)
Contour Protection to Mexican Allotment 266B Sasabe

PROPOSED FACILITY

COMMUNITY : TANQUE VERDE, ARIZONA
CHANNEL : 267
CALL : KKYZ
CLASS : C3
INTERNATIONAL : B
COORDINATES : N32-08-45 X W110-46-56
RADIATING CENTER : 981 METERS AMSL (100 METERS HAAT)
AZIMUTH TO PROTECTED FACILITY: 224.0 DEGREES TRUE
STANDARD RADIALS : 180.0 HAAT: 63.2 M
: 225.0 HAAT: 124.9 M
INTERPOLATED : 224.0 HAAT: **123.5** M
RESTRICTED POWER : 0.650 KW AT 123.5 M ON 224.0 DEGREE RADIAL
INTERFERING CONTOUR : 48 DBU (50,10)
DISTANCE TO INTERFERING CONTOUR: 39.0 KM

PROTECTED ALLOCATION AT SASABE, SONORA, MEXICO

COMMUNITY : **SASABE, SONORA**
CHANNEL : 266
CALL : VACANT CHANNEL
CLASS : B
COORDINATES : N31-28-00 X W111-32-50
MAXIMUM FACILITY : 150 M AT 50 KW
RELATIONSHIP : FIRST-ADJACENT
PROTECTED CONTOUR : 54 DBU (50,50)
DISTANCE TO PROTECTED CONTOUR : 65.0 KM
(MAXIMUM PROTECTION FOR CLASS)

SUMMARY

DISTANCE TO PROTECTED CONTOUR(SASABE) : 65.0 KM
DISTANCE TO RESTRICTED CONTOUR(KKYZ) : 39.0 KM
TOTAL DISTANCE RESTRICTED PLUS PROTECTED : 104.0 KM
ACTUAL SPACING : 104.5 KM

CLEARANCE 0.5 KM
NO OVERLAP OF PROTECTED AND INTERFERING CONTOUR

Tanque Verde Channel 267C3 (KKYZ)
Contour Protection to Mexican Allotment 267B Agua Prieta

PROPOSED FACILITY

COMMUNITY : TANQUE VERDE, ARIZONA
CHANNEL : 267
CALL : KKYZ
CLASS : C3
INTERNATIONAL : B
COORDINATES : N32-08-45 X W110-46-56
RADIATING CENTER : 981 METERS AMSL (100 METERS HAAT)
AZIMUTH TO PROTECTED FACILITY: 128.6 DEGREES TRUE
STANDARD RADIALS : 90.0 HAAT: -14.3 M
: 135.0 HAAT: 23.1 M
INTERPOLATED : 128.6 HAAT: **17.8** M (32 M ASSUMED)
RESTRICTED POWER : 2.77 KW AT 32.0 M ON 128.6 DEGREE RADIAL
INTERFERING CONTOUR : 34 DBU (50,10)
DISTANCE TO INTERFERING CONTOUR: 83.0 KM

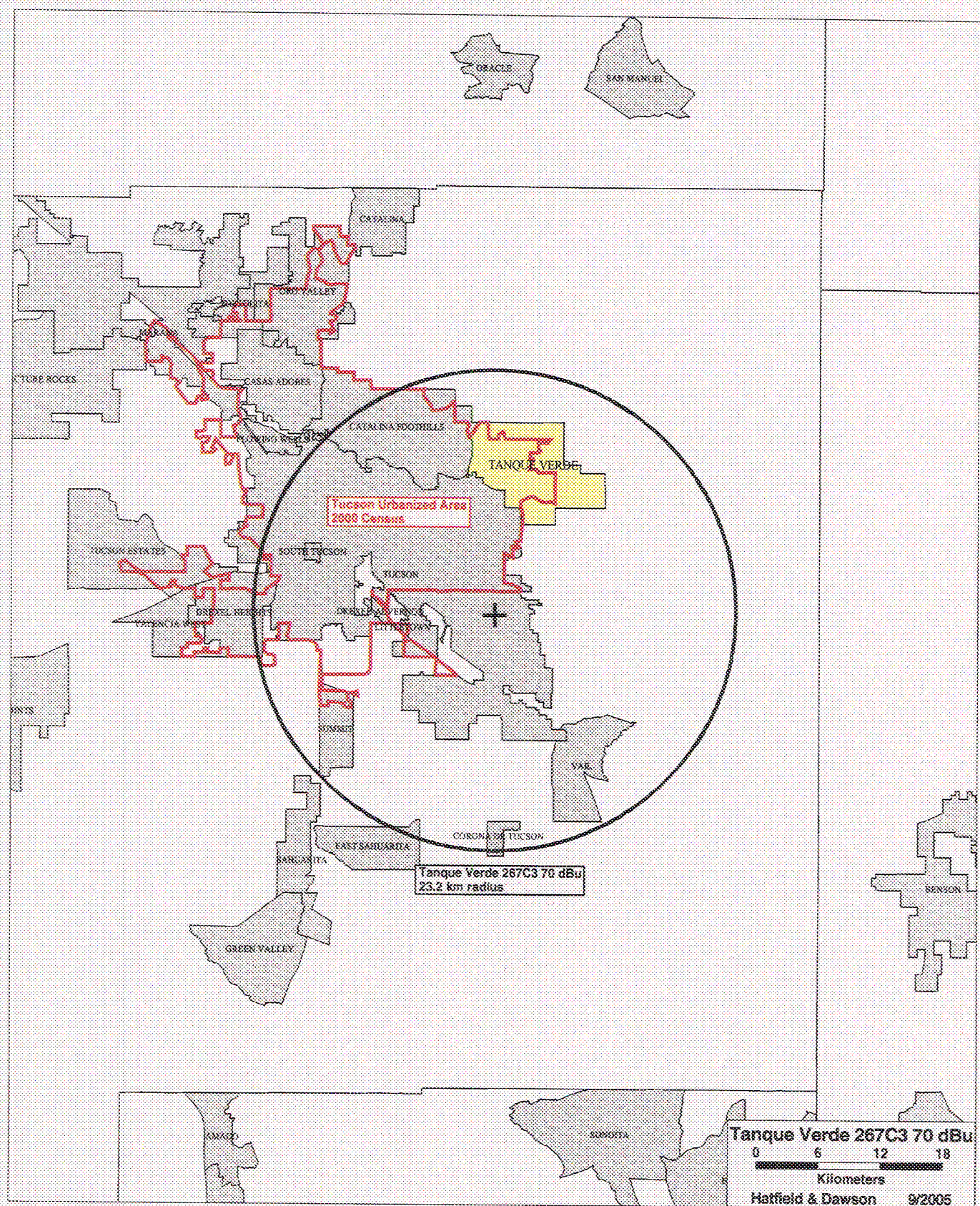
PROTECTED ALLOCATION AT AGUA PRIETA, SONORA, MEXICO

COMMUNITY : **AGUA PRIETA, SONORA**
CHANNEL : 267
CALL : VACANT CHANNEL
CLASS : B
COORDINATES : N31-18-24 X W109-33-37
MAXIMUM FACILITY : 150 M AT 50 KW
RELATIONSHIP : CO-CHANNEL
PROTECTED CONTOUR : 54 DBU (50,50)
DISTANCE TO PROTECTED CONTOUR : 65.0 KM
(MAXIMUM PROTECTION FOR CLASS)

SUMMARY

DISTANCE TO PROTECTED CONTOUR(AGUA PRIETA): 65.0 KM
DISTANCE TO RESTRICTED CONTOUR(KKYZ) : 83.0 KM
TOTAL DISTANCE RESTRICTED PLUS PROTECTED : 148.0 KM
ACTUAL SPACING : 148.5 KM

CLEARANCE 0.5 KM
NO OVERLAP OF PROTECTED AND INTERFERING CONTOUR



Corona de Tucson Channel 253A Allocation Study Exhibits

Hatfield & Dawson Consulting Engineers

SEARCH PARAMETERS

FM Database Date: 050915

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Channel: 253A 98.5 MHz
 Latitude: 31 55 39
 Longitude: 110 37 57
 Safety Zone: 32 km
 Job Title: CORONA DE TUCSON 253A (KRDX)

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
NEW-T APP	GREEN VALLEY AZ	BNPFT-030317KTS	250D 97.9	0.050 140.0	31-55-45 110-59-49	270.4	34.47 0.00	0 TRANS
NEW-T APP	GREEN VALLEY AZ	BNPFT-030312BCW	250D 97.9	0.050 87.0	31-50-30 110-57-23	252.8	32.09 0.00	0 TRANS
NEW-T APP	TUCSON AZ	BNPFT-030314BAJ	250D 97.9	0.010 133.0	32-13-20 110-52-55	324.4	40.28 0.00	0 TRANS
NEW-T APP	BENSON AZ	BNPFT-030317DFA	251D 98.1	0.023 328.0	31-53-05 110-21-18	100.2	26.67 0.00	0 TRANS
VAC	PATAGONIA AZ	RM-10095	251A 98.1	0.000 0.0	31-33-05 110-44-45	194.4	43.06 12.06	31 CLEAR
NEW-T APP	BISBEE AZ	BNPFT-030317DFK	252D 98.3	0.010 794.0	31-28-53 109-57-32	127.7	80.77 0.00	0 TRANS
KOHT LIC	MARANA AZ	BLH-980218KG	252A 98.3	6.000 56.0	32-27-09 111-05-11	323.9 SS	72.26 0.26	72 CLOSE
KOHTaux CP	MARANA AZ	BXPH-031216ABK	252A 98.3	3.700 34.0	32-27-10 111-05-11	323.9	72.28 0.00	0 AUX
KOHT CP	MARANA AZ	BPH-021219ABM	252A 98.3	6.000 58.0	32-26-31 111-05-28	323.1 SS	71.59 -0.41	72 SHORT
XHSAP-FMAGUA SO	PRIETA -		253B 98.5	50.000 150.0	31-18-24 109-33-37	123.9	122.77 -55.23	178 SHORT
NOTE: MEXICAN STATION; PLEASE SEE ATTACHED ALLOCATION STUDY								
NEW-T APP	SIERRA VISTA AZ	BNPFT-030317DWF	253D 98.5	0.062 210.0	31-33-59 110-13-57	136.6	55.13 0.00	0 TRANS
RSV	VAIL AZ	RM-9815	253A 98.5	0.000 0.0	31-55-39 110-37-57	0.0	0.00 -115.00	115 SHORT
NOTE: TO 253A CORONA DE TUCSON PER THIS PROPOSAL								

SEARCH PARAMETERS

FM Database Date: 050915

Channel: 253A 98.5 MHz
 Latitude: 31 55 39
 Longitude: 110 37 57
 Safety Zone: 32 km
 Job Title: CORONA DE TUCSON 253A (KRDX)

Call Status	City St	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
KRDX	VAIL		253A	3.900 DA	31-55-39	0.0	0.00	115
CP	AZ	BPH-020228AEE	98.5	125.0	110-37-57		-115.00	SHORT
NOTE: TO 253A CORONA DE TUCSON PER THIS PROPOSAL								
KRDXaux	VAIL		253A	0.650 DA	31-53-47	171.4	3.49	0
CP	AZ	BXPB-031106AMD	98.5	300.0	110-37-37		0.00	AUX
NEW-T	SIERRA VISTA		254D	0.062	31-33-59	136.6	55.13	0
APP	AZ	BNPFT-030317DWJ	98.7	210.0	110-13-57		0.00	TRANS
KWXL-LP	TUCSON		254L1	0.050	32-10-59	311.2	43.18	0
CP	AZ	BNPL-010613AAA	98.7	-12.3	110-58-39		0.00	LPM
K255AC	TUCSON		255D	0.010	32-26-29	346.5	58.63	0
LIC	AZ	BLFT-950113TD	98.9	1616.0	110-46-44		0.00	TRANS
NEW-T	SIERRA VISTA		256D	0.018	31-33-10	142.7	52.27	0
APP	AZ	BNPFT-030310ALK	99.1	135.0	110-17-52		0.00	TRANS
NEW-T	SOUTH TUCSON		256D	0.010	32-13-21	315.9	45.74	0
APP	AZ	BNPFT-030317FSG	99.1	138.0	110-58-16		0.00	TRANS
NEW-T	SOUTH TUCSON		256D	0.013	32-13-21	315.9	45.74	0
APP	AZ	BNPFT-030829AMY	99.1	138.0	110-58-16		0.00	TRANS
44444 BEGINNING SEARCH OF SECONDARY DATABASE 44444								
KRDX	CORONA DE TUCSON		253A	0.000	31-55-39	0.0	0.00	115
PROP	AZ -		98.5	0.0	110-37-57		-115.00	SHORT

44444 END OF FM SPACING STUDY FOR CHANNEL 253 44444